

Photometric test report

Family
Silica® 21 Floor

Order number: 51MX52DA4ZM00882XX
EAN: 4069025333735

LP number
59266_332

serial
documentation
09.04.2025



Version floorstanding uplight, reflector, black, indirect-/ direct distribution, wide distribution, UGR≤19 (L65≤1000cd/m²), with presence- and daylightsensor

Lamps LED 4000 K | CRI ≥ 80

Controlgear ECG-DALI

Setting individual position: only direct light

Rated values Net luminous flux = 4320 lm
Power consumption = 27.4 W
Luminous efficacy = 157.7 lm/W

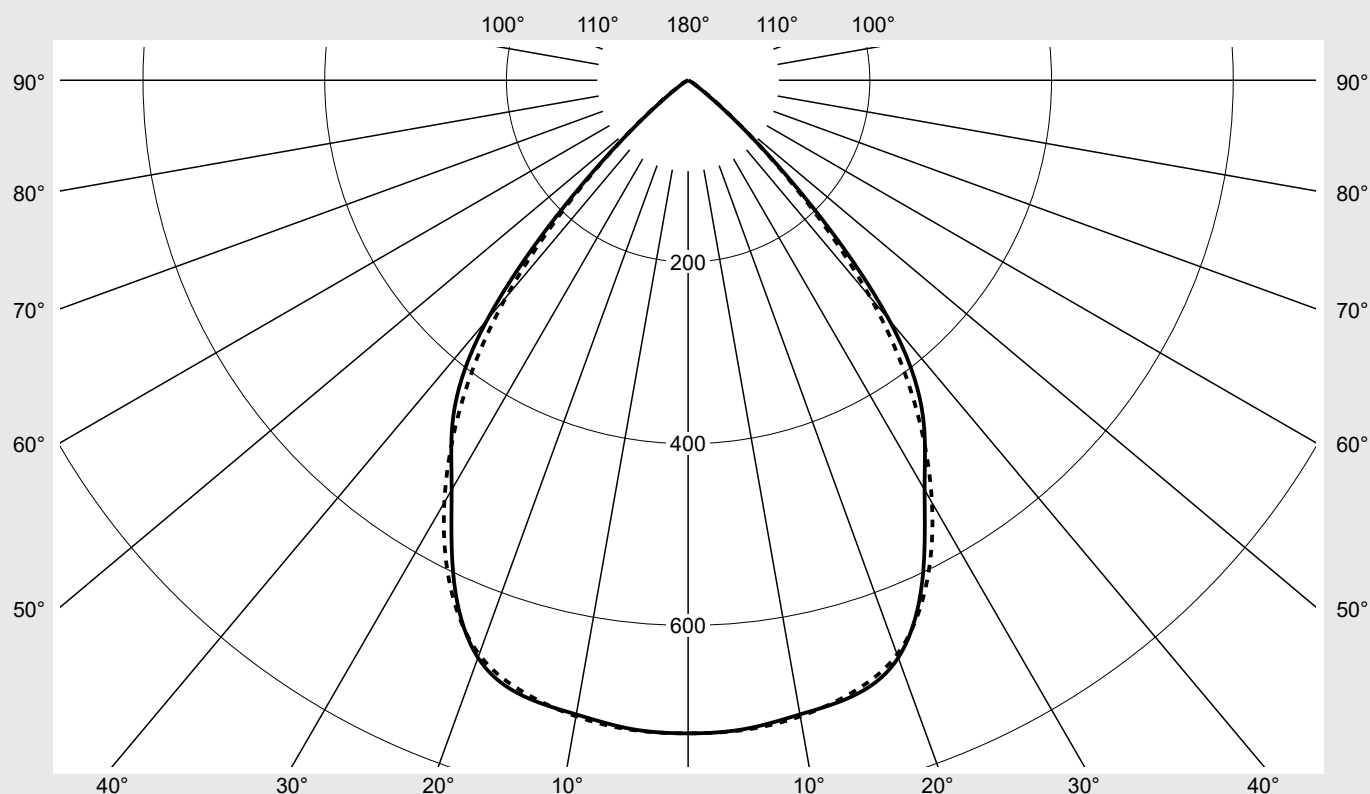
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Luminous intensity in cd/klm

C180-0

C270-90

Imax: 719 cd/klm



Classifications

DIN 5040 A 6 0
CIE N1=86 N2=100 N3=100
N4=100 N5=100

Luminaire light output ratios

η_{LB} 100.0%
 ϕ_u 100.0%
 ϕ_o 0.0%

Measurement conditions

DIN EN 13032 and DIN 5032

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Table of values for luminous intensities		Maximum luminous intensity

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C- planes	0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	Phi-zone	Total Phi-zone
γ	Luminous intensity in cd/klm							Luminous flux in lm/klm	
0°	718.8	718.8	718.8	718.8	718.8	718.8	718.8	4.3	4.3
5°	716.8	715.7	712.2	716.2	717.8	715.2	717.7	34.2	38.5
10°	708.8	709.0	703.3	708.6	709.9	707.6	710.9	67.4	105.9
15°	701.5	704.3	697.3	698.3	698.8	696.7	697.6	99.2	205.1
20°	676.3	682.5	681.1	681.0	677.6	673.2	672.5	127.2	332.2
25°	609.5	618.9	627.5	636.4	634.5	625.9	617.8	145.0	477.3
30°	520.6	528.9	533.1	542.9	550.7	541.7	536.8	147.4	624.6
35°	450.5	455.7	444.2	436.3	445.0	443.0	435.2	139.8	764.4
40°	343.9	350.9	343.2	332.9	329.4	321.5	312.0	117.8	882.2
45°	178.2	185.2	190.8	192.2	186.9	176.3	167.1	71.3	953.5
50°	59.7	64.4	73.8	78.7	75.2	68.1	63.7	29.5	983.0
55°	15.6	18.5	24.7	31.2	26.2	20.2	17.4	10.3	993.3
60°	6.1	6.8	9.1	12.2	9.8	7.7	7.0	4.1	997.4
65°	2.1	2.4	3.4	4.3	3.8	3.0	2.8	1.6	999.0
70°	1.4	1.4	1.0	1.0	1.2	1.5	1.5	0.7	999.7
75°	0.3	0.4	0.3	0.4	0.4	0.5	0.4	0.2	999.9
80°	0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.1	999.9
85°	0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.1	1000.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0

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UGR-Table		Standard room							siteco	
Reflection factor of ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5
Reflection factor of walls		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3
Reflection factor of floor		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		View crosswise (C0)					View endwise (C90)			
2H	x									
	y									
	2H	19.0	20.3	19.4	20.6	21.0	18.9	20.2	19.2	20.5
	3H	18.9	20.0	19.3	20.4	20.7	18.7	19.9	19.1	20.2
	4H	18.8	19.9	19.2	20.2	20.6	18.7	19.7	19.1	20.1
	6H	18.8	19.7	19.2	20.1	20.5	18.6	19.5	19.0	19.9
4H	8H	18.8	19.6	19.2	20.0	20.4	18.6	19.4	19.1	19.8
	12H	18.8	19.5	19.2	19.9	20.3	18.6	19.4	19.0	19.7
	2H	18.9	19.9	19.3	20.2	20.6	18.7	19.7	19.1	20.1
	3H	18.7	19.5	19.1	19.9	20.4	18.5	19.4	19.0	19.8
	4H	18.6	19.4	19.1	19.8	20.2	18.4	19.2	18.9	19.6
	6H	18.5	19.2	19.0	19.6	20.1	18.4	19.0	18.8	19.4
8H	8H	18.5	19.1	19.0	19.5	20.0	18.3	18.9	18.8	19.3
	12H	18.5	19.0	19.0	19.4	19.9	18.3	18.8	18.8	19.2
	4H	18.5	19.1	19.0	19.5	20.0	18.3	18.9	18.8	19.3
	6H	18.4	18.8	18.9	19.3	19.8	18.2	18.7	18.7	19.2
	8H	18.3	18.7	18.8	19.2	19.8	18.2	18.6	18.7	19.1
	12H	18.3	18.6	18.8	19.1	19.7	18.1	18.5	18.7	19.0
12H	4H	18.5	19.0	19.0	19.4	19.9	18.3	18.8	18.8	19.2
	6H	18.4	18.7	18.9	19.2	19.8	18.2	18.6	18.7	19.1
	8H	18.3	18.6	18.8	19.1	19.7	18.1	18.5	18.7	19.0
	2H	18.9	19.9	19.3	20.2	20.6	18.7	19.7	19.1	20.1
	3H	18.7	19.5	19.1	19.9	20.4	18.5	19.4	19.0	19.8
	4H	18.6	19.4	19.1	19.8	20.2	18.4	19.2	18.9	19.6

Luminance table		Max. for $\gamma \geq 65^\circ$		Photometric dimensions in mm:		L = 1176 B = 49	
C-planes	γ	0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°
			Luminance in cd/m²				
45°		18893.8	19639.4	20224.8	20378.7	19816.4	18686.5
50°		6967.4	7515.8	8602.9	9174.9	8765.7	7944.9
55°		2040.2	2416.2	3223.4	4082.0	3422.4	2643.9
60°		914.5	1022.3	1370.7	1828.8	1475.1	1154.2
65°		373.2	429.1	595.7	753.9	671.6	529.3
70°		297.0	310.2	229.3	215.0	259.3	333.6
75°		82.6	110.1	89.5	125.7	115.3	137.9
80°		20.7	20.7	30.7	46.2	61.7	71.7
85°		20.6	36.1	45.6	81.7	117.8	142.8

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Luminance values in cd/m²

γ 65°

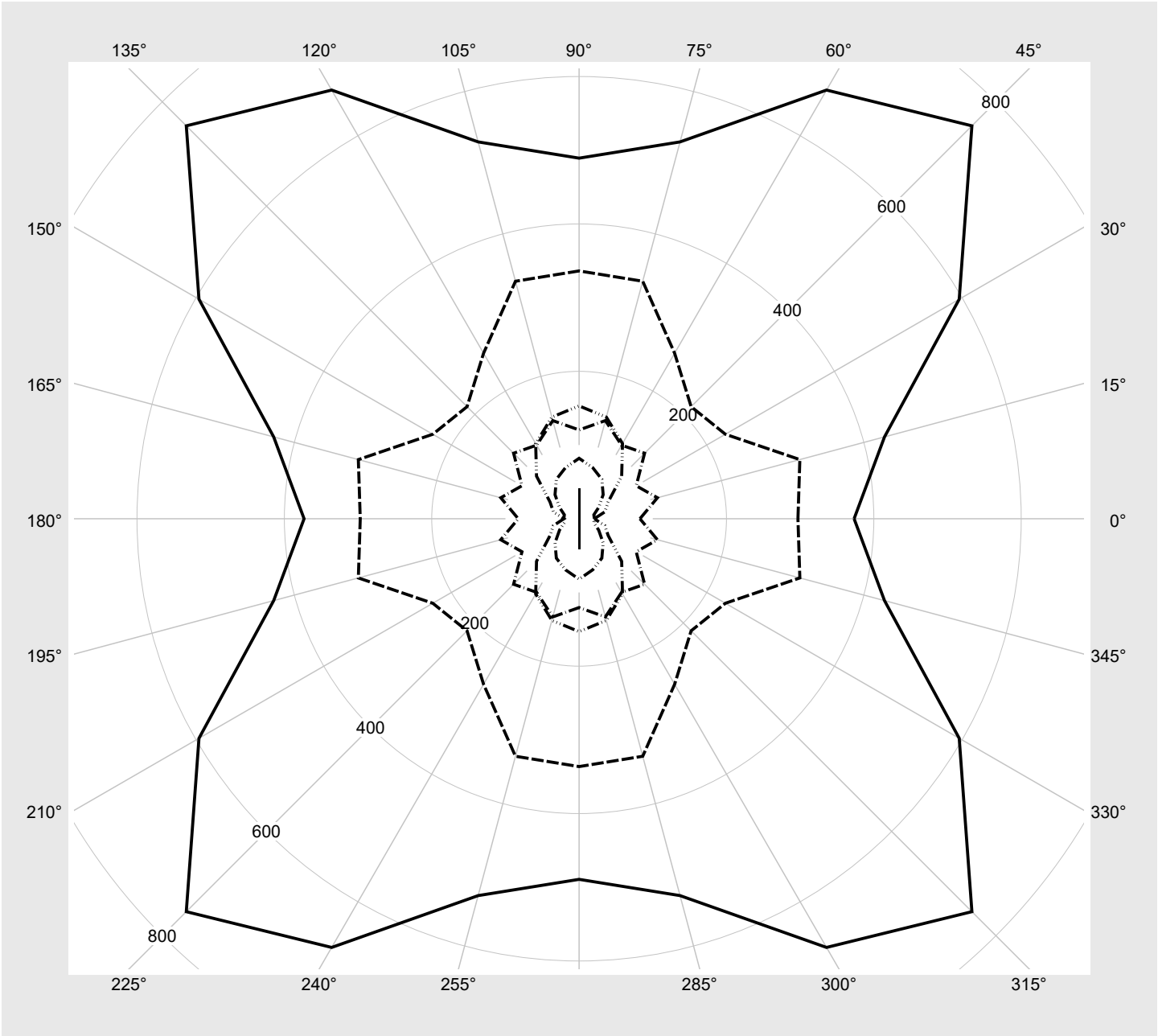
γ 70°

γ 75°

γ 80°

γ 85°

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Dimming levels table		environmental temperature: 25°C
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Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	4320	27.4
95	241	252	4110	26.0
90	227	250	3883	24.5
85	214	248	3670	23.1
80	201	245	3457	21.7
75	188	243	3242	20.3
70	175	240	3025	18.9
65	162	238	2808	17.5
60	149	234	2589	16.2
55	136	231	2368	14.8
50	124	228	2164	13.6
45	111	224	1941	12.2
40	99	219	1735	11.0
35	86	214	1510	9.7
30	74	209	1300	8.4
25	61	202	1073	7.2
20	49	194	862	6.0
15	37	183	650	4.9
10	25	169	437	3.7
5	13	145	223	2.5
1	4	102	62	1.4